

## Product datasheet for **RG208348**

### GLYCTK (NM\_145262) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLYCTK (NM_145262) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLYCTK
Synonyms:	HBeAgBP4A; HBEBP2; HBEBP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208348 representing NM\_145262  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGCAGCCCTGCAGGTCCTGCCCCGCTTGGCCCGAGCCCCCTTGCATCCACTCCTCTGGCGGGCT  
 CAGTGGCCCGTCTGGCCAGCAGCATGGCCTTGGCAGAGCAGGCCAGGCAGCTGTTTGAGAGTGCTGTAGG  
 TGCAGTGTGCCGGGCCCATGTGTCACCGGGCACTATCCTTGGACCCTGGTGGCAGACAGCTGAAGGTG  
 CGGGACCGGAACCTTTCAGCTGAGGCAAAACCTCTACCTGGTGGGCTTGGCAAGGCTGTGCTGGGTATGG  
 CAGCTGCAGCTGAGGAACACTGGGCCAGCATCTTGTGCAGGGCGTGATCAGCGTCCCAAGGGGATCCG  
 TGCTGCCATGGAGCGTCCGGCAAGCAGGAGATGCTGCTGAAGCCACATAGCCGTGTCCAGGTATTCGAG  
 GGTGGGAGGACAACCTCCGGACCGCATGCGCTGCGGGCTGCACTGGCCATCCAGCAACTGGCTGAGG  
 GACTCACAGCTGATGACCTGCTGCTCGTGTGATCTCAGGTGGGGTTTCAGCTCTGCTGCCTGCCCCAT  
 CCCACCTGTCACACTGGAGGAGAAGCAGACACTACTAGACTGCTGGCAGCCCGTGGAGCCACCATCCAG  
 GAGTTGAACACCATTCGGAAGGCCCTGTCCAGCTCAAGGGTGGGGGGCTGGCTCAGGCCCTACCTCG  
 CCCAGGTGGTGGCCTCATCCTGTGAGATGTGGTGGGGGACCCTGTGGAGGTGATTGCCAGTGGCCCCAC  
 CGTGGCCAGTTCACAAATGTGCAAGATTGCCTGCATATCCTCAATCGTACGGCCTCCGTGCAGCCCTG  
 CCACGTTCTGTGAAGACTGTGCTGTCTCGGGCCGACTCTGACCCCATGGCCACACACCTGTGGCCATG  
 TCCTGAATGTGATCATTGGCTCTAATGTGCTGGCGCTAGCTGAGGCCAGCGGCAGGCCGAGGCACTGGG  
 CTACCAGGCTGTGGTGTGAGTGCAGCCATGCAAGGTGATGTAAAAAGTATGGCCAGTTCTACGGGCTG  
 CTGGCCCATGTGGCTAGAACCCGCTCACCCATCCATGGCTGGGGCTTCTGTGGAGGAAGATGCACAGC  
 TCCATGAGCTGGCAGCTGAGCTTCAGATCCCAGACCTGCAGCTGGAGGAGGCTCTGGAGAGCATGGCATG  
 GGAAGGGGCCAGTCTGCCTGCTGGCTGGTGGCGAGCCACAGTACAGCTGCAGGGCTCGGGCAGGGGT  
 GGCCGGAACAGGAACCTGCCCTGCGTGTGGAGCAGAGTTGAGAAGGTGGCCGCTGGGGCCGATAGATG  
 TGCTGTTTTGAGCGGTGGCACCAGTGGCAGGATGGGCCACAGAGGCTGCTGGGGCTGGGTACACC  
 TGAGCTTGCCAGCCAGGCTGCAGCTGAGGGCCTGGACATAGCCACCTTCTAGCCACAATGACTCACAT  
 ACCTTCTCTGCTGCCTCCAGGGTGGGGCACACCTGCTGCACACAGGGATGACAGGTACCAATGTCATGG  
 ACACCCACCTCTGTTCTCGGCCTCGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208348 representing NM\_145262  
 Red=Cloning site Green=Tags(s)

MAAALQVLPRLARAPLHPLLWRGSVARLASSMALAEQARQLFESAVGAVLPGPMLHRALSLDPGGRQLKV  
 RDRNFQLRQNL YLVGFGKAVLGMAAAAEELLGQHLVQGVISVPKGIIRAAMERAGKQEMLLKPHSRVQVFE  
 GAEDNLPDRDALRAALAIQQLAEGLTADDLLLVLISGGGSALLPAPIPPVTLEEKQTLTRLLAARGATIQ  
 ELNTRKALSQKGGGLAQAAYPQVVSLLILSDVVGDPVEVIASGPTVASSHNVQDCLHILNRYGLRAAL  
 PRSVKTVLSRADSPHPHTCGHVLNVIIGSNVLALAEQRQAEALGYQAVVLSAAMQGDVKSMAQFYGL  
 LAHVARTRLTPSMAGASVEEDAQLHELAELQIPDLQLEEALETMAWGRGPVCLLAGGEPTVQLQGSRG  
 GRNQELALRVGAELRRWPLGPIDVLFLLSGGTDGQDGPTEAAGAWVTELASQAAAEGLDIATFLAHNSH  
 TFFCCLQGGHLLHTGMTGTNMDTHLLFLRPR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_145262

**ORF Size:** 1569 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_145262.4](#)

**RefSeq Size:** 2006 bp

**RefSeq ORF:** 1572 bp

**Locus ID:** 132158

**UniProt ID:** [Q8IVS8](#)

**Cytogenetics:** 3p21.2

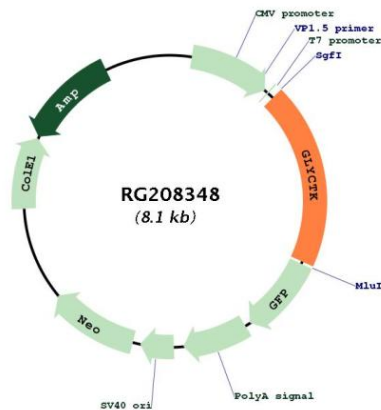
**Domains:** MOFRL

**Protein Families:** Transcription Factors

**Protein Pathways:** Glycerolipid metabolism, Glycine, serine and threonine metabolism, Glyoxylate and dicarboxylate metabolism, Metabolic pathways

**Gene Summary:** This locus encodes a member of the glycerate kinase type-2 family. The encoded enzyme catalyzes the phosphorylation of (R)-glycerate and may be involved in serine degradation and fructose metabolism. Decreased activity of the encoded enzyme may be associated with the disease D-glyceric aciduria. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2009]

**Product images:**



Circular map for RG208348